

## DATA PROJECTOR MODEL **PG-F320W**

# SETUP MANUAL

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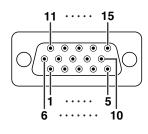
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## **Connecting Pin Assignments**

#### COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals : mini D-

sub 15 pin female connector

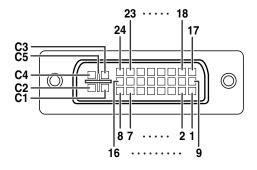




#### Pin No. Signal 1.

- Video input (red) 2 Video input (green/sync on green)
- З. Video input (blue)
- 4. Not connected
- 5. Not connected
- 6. Earth (red)
- 7. Earth (green/sync on green)
- 8. Earth (blue)
- Not connected 9
- 10. GND
- 11. Not connected
- 12. **Bi-directional data**
- 13. Horizontal sync signal: TTL level Vertical sync signal: TTL level
- 14.
- 15. Data clock

#### DVI-I Terminal: 29 pin connector



#### DVI Analog RGB Input Pin No. Pin No. Signal Signal Hot plug detection 1 Not connected 16. 2 Not connected 17. Not connected З. Not connected 18. Not connected 4 Not connected 19. Not connected 5. Not connected 20. Not connected 6. DDC clock 21. Not connected DDC data 22 Not connected 7 8. 23. Not connected Vertical sync Not connected 24. Not connected 9 C1. Analog input Red 10. Not connected Analog input Green C2. 11. Not connected (Sync On Green) 12 Not connected СЗ. Analog input Blue 13. Not connected C4. Horizontal sync (Composite Sync) C5. Ground

14. +5V power Ground 15.

#### DVI Digital Input

	gitai iliput		
Pin No		Pin No.	Signal
1.	T.M.D.S data 2-	16.	Hot plug detection
2.	T.M.D.S data 2+	17.	T.M.D.S data 0–
З.	T.M.D.S data 2 shield	18.	T.M.D.S data 0+
4.	Not connected	19.	T.M.D.S data 0 shield
5.	Not connected	20.	Not connected
6.	DDC clock	21.	Not connected
7.	DDC data	22.	T.M.D.S clock shield
8.	Not connected	23.	T.M.D.S clock+
9.	T.M.D.S data 1–	24.	T.M.D.S clock–
10.	T.M.D.S data 1+	C1.	Not connected
11.	T.M.D.S data 1 shield	C2.	Not connected
12.	Not connected	C3.	Not connected
13.	Not connected	C4.	Not connected
14.	+5V power	C5.	Ground

**COMPONENT Input/Output** 

Not connected

~

PR (CR)

PB (CB)

Earth (PR)

Earth (Y) Earth (PB)

Signal

Pin No.

1

2.

З.

4.

5.

6.

7.

8.

9

10.

11.

12.

13.

14.

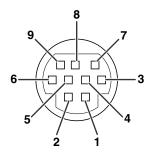
15.

14. 15. Ground

#### DVI Analog Component Input E

'in No.	. Signal	Pin No.	Signal
1.	Not connected	16.	Not connected
2.	Not connected	17.	Not connected
З.	Not connected	18.	Not connected
4.	Not connected	19.	Not connected
5.	Not connected	20.	Not connected
6.	Not connected	21.	Not connected
7.	Not connected	22.	Not connected
8.	Not connected	23.	Not connected
9.	Not connected	24.	Not connected
10.	Not connected	C1.	Analog input Pr/Cr
11.	Not connected	C2.	Analog input Y
12.	Not connected	C3.	Analog input Pb/Cb
13.	Not connected	C4.	Not connected
14.	Not connected	C5.	Ground
15.	Ground		

#### **Connecting Pin Assignments**



 Pin No.
 Signal

 1.
 RD

 2.
 RD

 3.
 SD

 4.
 SD

 5.
 SG

 6.
 CS

 7.
 RS

 8.
 CS

 9.
 SI

RS-232C Terminal : mini DIN 9 pin female connector

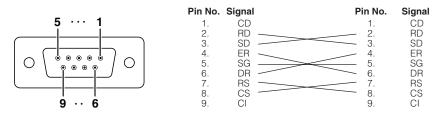
NameI/OReceive DataInput<br/>OutputSignal GroundRequest to Send<br/>Clear to Send

Reference
Not connected
Connected to internal circuit
Connected to internal circuit
Not connected
Connected to internal circuit
Not connected
Connected to CS in internal circuit
Connected to RS in internal circuit
Not connected

#### RS-232C Terminal : D-sub 9 pin male connector of the DIN-D-sub RS-232C adaptor

1 5	Pin No.	Signal	Name	I/O	Reference
	1. 2. 3. 4.	RD SD	Receive Data Send Data	Input Output	Not connected Connected to internal circuit Connected to internal circuit Not connected
	5. 6.	SG	Signal Ground		Connected to internal circuit Not connected
6 · · 9	7. 8. 9.	RS CS	Request to Send Clear to Send		Connected to CS in internal circuit Connected to RS in internal circuit Not connected

#### RS-232C Cable recommended connection : D-sub 9 pin female connector



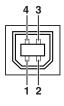
#### Note

• Depending on the controlling device used, it may be necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. computer).



#### USB Terminal : Type B USB connector

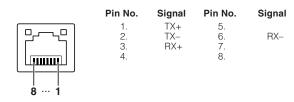
Р



in No.	Signal
1.	VCC
2.	USB-
З.	USB+
4.	SG



#### LAN Terminal : LAN (RJ-45)



## **Computer control**

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, commercially available) to the projector. (See page 24 of the projector's operation manual for connection.)

#### **Communication conditions**

Set the serial port settings of the computer to match that of the table.Signal format: Conforms to RS-232C standard.Parity bit: NoneBaud rate\*: 9,600 bps / 115,200 bpsStop bit: 1 bitData length: 8 bitsFlow control: None\*Set the projector's baud rate to the same rate as used by the computer.

### **Basic format**

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format	
C1         C2         C3         C4         P1         P2         P3         P4         Return code (0DH)	
Command 4-digit Parameter 4-digit Response code format	
Normal response Problem response (communication error or incorre	ot command)
O     K     Return code (0DH)     E     R     Return code (0DH)	

#### 🛄 Info

- When controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.
- After sending an input selection or picture adjustment command and then receiving an "OK" response code, the projector may take some time to process the command. If a second command is sent while the projector is still processing the first command, you may receive an "ERR" response code. If this happens, try resending the second command.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.
- "POWR????" "TABN \_\_\_1" "TLPS \_\_\_1" "TPOW \_\_\_1" "TLPN \_\_\_1" "TLTT \_\_\_1" "TLTL \_\_\_1" "TNAM \_\_\_1" "MNRD \_\_\_1" "PJN0 \_\_\_1"
  - When the projector receives the special commands shown above:
    - \* The on-screen display will not disappear.
    - \* The "Auto Power Off" timer will not be reset.
  - The special commands are available for applications that require continuous polling.

## Note

- If an underbar (\_) appears in the parameter column, enter a space.
- If an asterisk (\*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.
- \*1 For setting the projector name, send the commands in the order of PJN1, PJN2 and PJN3.
- \*2 This command should be sent only after the "IRGB \_\_\_\_2" command is sent and an "OK" response code is received.
- \*3 The Lamp Timer Reset command is available only in standby mode.

## Commands

Example: When turning on the projector, make the following setting.

	Computer															Projector			
	Р	0	W	R				1			4		7			> 0 K	گ		
	1	0	•••	K	-	-	-	1			-			-	←				
																RE	TURN		
		CONTR	OL CONTE	NTS				(	COMMAND			P/	ARA	MET	ER	Power ON	Standby mode		
Davia		0.7							0	110/	D		1	1	-1	OK or ERR OK			
Power		On						P		W			-	-	1 0	OK OF ERR	OK or ERR		
			itus					Ρ		W			?	?	?	1	0		
Projector Condition								Т	A	В	Ν	-	-	-	1	0: Normal	0: Normal		
																1: Temp High 8: Lamp Life 5% or less	1: Temp High 2: Fan Error		
																16: Lamp Burn-out	4: Cover Open		
																32: Lamp Ignition Failure	8: Lamp Life 5% or less		
																	16: Lamp Burn-out		
																	32: Lamp Ignition Failure 64: Temp Abnormally High		
Lamp		Sta	itus					Т	L	P	S	-	_	-	1	0:Off, 1:On, 2:Retry	0:Off, 4:Lamp Error		
																3:Waiting, 4:Lamp Error			
			wer Statu	S				T		_			-	-	1	1:On, 2:Cooling	0:Standby		
			antity age Time	(Hour)				T					-	-	1	1 0 – 9999(Integer)			
			age Time					+ T	L				-	-	1	0, 15, 30, 45	<u> </u>		
			e(Percent					Т	_	Т	_	-	_	-	1	0% - 100%(Integer)			
Name			del Name					Т		A		_	-	-	1	PGF320W			
			del Name					M		R		-	-	-	1	PG-F320W			
		Projector Name Setting 1 (First 4 characters) *1							J		1					OK or ERR			
		Projector Name Setting 2							J	N	2	*	*	*	*	OK or ERR			
		(Middle 4 characters) *1																	
		Projector Name Setting 3						P	J	N	3	*	*	*	*	OK or ERR			
			(Last 4 characters) *1 Projector Name Check						J	N	0	-	-	+	1	Projector Name			
Input Change			Computer					1		G			_	-	1	OK or ERR	ERR		
-			DVI					1		G	-	-	_	_	2	OK or ERR	ERR		
			DVI-D-Co			2		1		D			-	-	1	OK or ERR OK or ERR	ERR		
			DVI-D-Video select *2 DVI-Analog select *2								-		-	-	2	OK or ERR	ERR		
			/ideo	<u>y</u> 00.00				1		E			_	-	1	OK or ERR	ERR		
		Vid						1	V	_		_	-	-	2	OK or ERR	ERR		
		· ·	ut RGB C					<u> </u>	R	G		_	?	-	?	1: Computer, 2: DVI or ER 1: S-Video, 2: Video or ER			
			Input Video Check							0			?	_	?	1: RGB, 2: Video	ERR		
			Input Mode Check Input Check							H			?		?	1: Computer	ERR		
														2: DVI					
																3: S-Video 4: Video			
Volume		Vo	ume(0 -	60)				V	0	L	A	-	_	*	*	OK or ERR	ERR		
			ume up/c		) – +10)	)		V		U			*	*	*	OK or ERR	ERR		
Keystone			- +80					K					*	*	*	OK or ERR	ERR		
AV Mute		On Off								B			-	-	1	OK or ERR OK or ERR	ERR		
Freeze		Off						F		E			-	1-	1	OK of ERR	ERR		
		Off						F	R	E	Z	_	Ē	_	0	OK or ERR	ERR		
Auto Sync		Sta							D				[-	-	1	OK or ERR	ERR		
Resize		Co	mputer	Nor					A				-	-	1	OK or ERR OK or ERR	ERR		
					etch By Dot				A				-	-	2 3	OK or ERR	ERR		
				Full					A				_	-	5	OK or ERR	ERR		
					a Zoom			R	A	S	R	_	-	1	0	OK or ERR	ERR		
					tretch				A				-	1	1	OK or ERR	ERR		
		DV	I	Nor	mal etch				B				-	-	1	OK or ERR OK or ERR	ERR		
					By Dot				B				1-	1-	2	OK or ERR	ERR		
				Full	,			R	В	S	R	_	-	-	5	OK or ERR	ERR		
					a Zoom				В				-	1	0	OK or ERR	ERR		
				V-S	tretch			ΙR	В	lS	R	-	-	1	1	OK or ERR	ERR		

												RETURN			
	CONTROL CONTENT	S		COI	MM	ANC	)	PA	RAI	MET	ER	Power ON	Standby mode (or 30-second startup time)		
Resize	S-Video	Normal	R	1 A	A   :	S	V	_	_	_	1	OK or ERR	ERR		
		Stretch	R	1 A	A   :	S	V	_	_	_	2	OK or ERR	ERR		
		Area Zoom	R	1 A	A   ;	S	V	_	_	1	0	OK or ERR	ERR		
		V-Stretch	R	1 A	A   ;	S	V	_	_	1	1	OK or ERR	ERR		
	Video	Normal	R	₹ E	в	S	V	_	_	_	1	OK or ERR	ERR		
		Stretch	R		в		V	_	_	-	2	OK or ERR	ERR		
		Area Zoom	R	{ E	B	S	V	_	_	1	0	OK or ERR	ERR		
		V-Stretch	R	{ E	в	S	V.	_	_	1	1	OK or ERR	ERR		
ALL Reset		•	A	L		R	E	_	_	_	1	OK or ERR	ERR		
Computer INPUT	Picture Mode	Standard	R	1 A	A I	Р	S	_	_	1	0	OK or ERR	ERR		
		Presentation	R	1 A	A   I	Р	S	_	_	1	1	OK or ERR	ERR		
		Movie	R	1 A	A I	Ρ	S	_	_	1	2	OK or ERR	ERR		
		Game	R	1 A	A I	Р	S	_	_	1	3	OK or ERR	ERR		
		sRGB	R	1 A	A I	Р	S	_	_	1	4	OK or ERR	ERR		
	Contrast	-30 - +30	R	1 /	A I	Р	Ι.	_	*	*	*	OK or ERR	ERR		
	Bright	-30 - +30	R	1 A	A I	В	R	_	*	*	*	OK or ERR	ERR		
	Red	-30 - +30	R		A I		D	_	*	*	*	OK or ERR	ERR		
	Blue	-30 - +30	R		A I		E	_	*	*	*	OK or ERR	ERR		
	Color	-30 - +30	R		A (		0	_	*	*	*	OK or ERR	ERR		
	Tint	-30 - +30	R	1 A	A I	Т	T.	_	*	*	*	OK or ERR	ERR		
	Sharp	-30 - +30	B	1 A	A ;	s	H.	_	*	*	*	OK or ERR	ERR		
	CLR Temp	-1 -+ 1			A (		Т	_	_	*	*	OK or ERR	ERR		
	BrilliantColor™	0-+2	B		A  \		E	_	_	_	*	OK or ERR	ERR		
	Progressive	2D Progressive	R		_	_	P	_	_		0	OK or ERR	ERR		
		3D Progressive	R	_	_	_	P	_	_	_	1	OK or ERR	ERR		
		Film Mode	R	_	A	-	P				2	OK or ERR	ERR		
	Picture Reset	· ···· · · · · · · · · · · · · · · · ·	R		A I	_	E	_	-	-	1	OK or ERR	ERR		
	Signal Type	Auto	-1		_	S	1	_	-		0	OK or ERR	ERR		
	orginal Typo	RGB	- ti			S	i i	_	-	-	1	OK or ERR	ERR		
		Compontent	-ti				T I	_	-	-	2	OK or ERR	ERR		
	Audio Input	Audio 1	R		A J		i l	-	-	-	1	OK or ERR	ERR		
	/ duio input	Audio 2	B		A		I .	_	-	-	2	OK or ERR	ERR		
DVI INPUT	Picture Mode	Standard	R	_	BI		S	_	-	1		OK or ERR	ERR		
BVIIII OI		Presentation	R		BI		S	_	-		1	OK or ERR	ERR		
		Movie	R		BI		S	_	-	1		OK or ERR	ERR		
		Game	R		BI		S	-	-	1		OK or ERR	ERR		
		sRGB	R		BI		S	-	-	1	4	OK or ERR	ERR		
	Contrast	-30 - +30	R		BI			-	*	*	*	OK or ERR	ERR		
	Bright	-30 - +30	R				R	-	*	*	*	OK or ERR	ERR		
	Red	-30 - +30	R					-	*	*	*	OK or ERR	ERR		
	Blue	-30 - +30	R	_			E	-	*	*	*	OK or ERR	ERR		
	Color	-30 - +30	R				0	-	*	*	*	OK or ERR	ERR		
	Tint	-30 - +30	R		B	_		-	*	*	*	OK or ERR	ERR		
	Sharp	-30 - +30	B	_	_	-	H	-	*	*	*	OK or ERR	ERR		
	CLR Temp	-30 - +30	R	_	B (		T	-		*	*	OK of ERR OK of ERR	ERR		
	BrilliantColor™	0-+2	R					-	-	-	*	OK of ERR	ERR		
	Progressive		R	_	B	_	P	-	-	-	0	OK of ERR	ERR		
	Floglessive	2D Progressive 3D Progressive	R		B	_	P	-	-	-	1	OK of ERR	ERR		
		Film Mode			B		P	-	-	-					
	Disture Desit		_	_	_	_		-	-	-	2	OK or ERR	ERR		
	Picture Reset	Auto	R	_			E	-	-	-		OK or ERR	ERR		
	Signal Type	Auto RGB			B		· [	-	-	-	0	OK or ERR	ERR		
				_			1	-	-	-	1	OK or ERR	ERR		
	Availating to a	Compontent	1		B		1.	-	-	-	2	OK or ERR	ERR		
	Audio Input	Audio 1	R		B		1.	-	-	-	1	OK or ERR	ERR		
		Audio 2	R	_	B		1	-	-	-	2	OK or ERR	ERR		
	Dynamic Range	Auto	H	_				-	-	-	0	OK or ERR	ERR		
		Standard					D	-	-	-	1	OK or ERR	ERR		
		Enhanced	Η	1   N	V   I	В	D	_	_	-	2	OK or ERR	ERR		

CONTROL CONTENTO				COMMAND PARAMETER								RETURN			
	CONTROL CONTEN							P/	AR/	AME		Power ON	Standby mode (or 30-second startup time		
S-Video INPUT	Picture Mode	Standard			A			-	-	1	_	OK or ERR	ERR		
		Presentation				Ρ		-	-	1	_	OK or ERR	ERR		
		Movie			A	Ρ	S	-	-	1	-	OK or ERR	ERR		
	-	Game				Ρ	_	-	-	1	3	OK or ERR	ERR		
	Contrast	-30 - +30		_	A		1	-	*		*	OK or ERR	ERR		
	Bright	-30 - +30			A		R	-	*	*	*	OK or ERR	ERR		
	Red	-30 - +30				R		-	*	*	*	OK or ERR	ERR		
	Blue	-30 - +30		_	_	В	_	-	*	*	*	OK or ERR	ERR		
	Color	-30 - +30		_	А	С	0	-	*	*	*	OK or ERR	ERR		
	Tint	-30 - +30			А		1	-	*	*	*	OK or ERR	ERR		
	Sharp	-30 - +30		_	А		_	-	*	*	*	OK or ERR	ERR		
	CLR Temp	-1 - +1			А		Т	-	-	*	*	OK or ERR	ERR		
	BrilliantColor™					W		-	-	-	*	OK or ERR	ERR		
	Progressive	2D Progressive		_	А	Ι	Ρ	-	-	-	0	OK or ERR	ERR		
		3D Progressive		_	А	_	Ρ	-	-	-	1	OK or ERR	ERR		
		Film Mode			А		Ρ	-	-	-	2	OK or ERR	ERR		
	Picture Reset					R	Ē	1_	1-	-	1	OK or ERR	ERR		
	Audio Input	Audio 1			А	А	Ι	Ŀ	1-	-	1	OK or ERR	ERR		
		Audio 2			А		Ι	[-	-	-	2	OK or ERR	ERR		
/ideo INPUT	Picture Mode	Standard	'		В		S	-	_	1	0	OK or ERR	ERR		
		Presentation		_	В	_	S	E	-	1	1	OK or ERR	ERR		
		Movie	,	V	В	Ρ	S	-	-	1	2	OK or ERR	ERR		
		Game	`	V	В	Ρ	S	_	_	1	3	OK or ERR	ERR		
	Contrast	-30 - +30	,	V	В	Ρ	Τ	_	*	*	*	OK or ERR	ERR		
	Bright	-30 - +30	,	v	В	В	R	_	*	*	*	OK or ERR	ERR		
	Red	-30 - +30	,			R	D	_	*	*	*	OK or ERR	ERR		
	Blue	-30 - +30	,			В		_	*	*	*	OK or ERR	ERR		
	Color	-30 - +30		_			0	-	*	*	*	OK or ERR	ERR		
	Tint	-30 - +30			В	T	Ī	-	*	*	*	OK or ERR	ERR		
	Sharp	-30 - +30			В		H	-	*	*	*	OK or ERR	ERR		
	CLR Temp	-1 - +1			В		Т	-	-	*	*	OK or ERR			
	BrilliantColor™					W		-	+-		*	OK of ERR	ERR		
		2D Progressive			B		P	-	-	-	0	OK or ERR	ERR		
	Progressive						P	-	-	-	_				
		3D Progressive			В	1	P	-	-	-	1	OK or ERR	ERR		
	<b>B</b> <sup>1</sup> <b>1 D</b>	Film Mode			В	Ι		-	-		2	OK or ERR	ERR		
	Picture Reset				В		E	-	-	-	1	OK or ERR	ERR		
	Audio Input	Audio 1				A	1	-	-	-	1	OK or ERR	ERR		
		Audio 2			В		1	-	-	-	2	OK or ERR	ERR		
C.M.S. Setting	On				Μ	С	S	-	-	1	-	OK or ERR	ERR		
	Off	1					S	-	-		0	OK or ERR	ERR		
C.M.S.	Hue	Red				Н		-	*	*	-	OK or ERR	ERR		
		Yellow				Н		-	*	*		OK or ERR	ERR		
		Green				Н		-	*	*	*	OK or ERR	ERR		
		Cyan				Н		-	*	*	*	OK or ERR	ERR		
		Blue			М	Н	В	Ē	*	*	*	OK or ERR	ERR		
		Magenta				Н		L	*	*	*	OK or ERR	ERR		
		Reset				R		_	[-	-	2	OK or ERR	ERR		
	Saturation	Red			М		R	-	*	*	*	OK or ERR	ERR		
		Yellow	(	С	М	S	Υ	_	*	*	*	OK or ERR	ERR		
		Green	(	С	М	S	G	[-	*	*	*	OK or ERR	ERR		
		Cyan			М		С	-	*	*	*	OK or ERR	ERR		
		Blue	(	С	Μ	S	В	_	*	*	*	OK or ERR	ERR		
		Magenta		_		S	_	_	*	*	*	OK or ERR	ERR		
		Reset				R		1_	1_	-	3	OK or ERR	ERR		
	Value	Red				V		1_	*	*	*	OK or ERR	ERR		
		Yellow				V		1_	*	*	*	OK or ERR	ERR		
		Green					G	Ē	*	*	*	OK or ERR	ERR		
		Cyan				v			*	*	*	OK or ERR	ERR		
		Blue				V		F	*	*	*	OK or ERR	ERR		
		Magenta				V		1-	*	*	*	OK of ERR	ERR		
						R			$\vdash$	+	1	OK of ERR			
		Reset				R			1-		4		ERR		
Plaak	C.M.S. All Res	sei						- *	-	-	1	OK or ERR	ERR		
Clock	-150 - +150					С		Ê	ĺ.	+	<u> </u>	OK or ERR	ERR		
Phase	-30 - +30					P			ĺ.	*	L.	OK or ERR	ERR		
H-position	-150 - +150					Н			1*	*	1*	OK or ERR	ERR		
/-position	-60 - +60				A	V		-	1*	*	1	OK or ERR	ERR		
Fine Sync Adjustment R				_		R						OK or ERR	ERR		

	CONTROL CONTENTS			COMMAND								RETURN			
	CONTROL CONTEN	ITS		CI	OMI	MAN	D	PA	ARAI	METE	ĒR	Power ON	Standby mode (or 30-second startup time		
mage Shift	-40 - +40			L	Ν	D	S	_	*	*	*	OK or ERR	ERR		
OSD Display	On			Ι	М	D	Τ	1	١	_	1	OK or ERR	ERR		
	Off			Ι	М	D	Ι		_	_	0	OK or ERR	ERR		
/ideo System	Auto			М	Е	S	Υ	-	_	_	1	OK or ERR	ERR		
	PAL				Е			_	-	_	2	OK or ERR	ERR		
	SECAM					S	Υ	_	_	_	3	OK or ERR	ERR		
	NTSC4.43				Е		Y	_	_	_	4	OK or ERR	ERR		
	NTSC3.58					S					5	OK or ERR	ERR		
	PAL-M				E	S	Y	-	_	-	6	OK or ERR	ERR		
	PAL-N					S	Ý	-	_	_	7	OK or ERR	ERR		
	PAL-60					S	Ý	-	-	-	8	OK or ERR	ERR		
Background	Logo				M		G	-	-	-	1	OK or ERR	ERR		
Jackground	Blue				M			-	-	-	3	OK or ERR	ERR		
	None				M			-	-	-	4	OK or ERR	ERR		
ama Catting								-	-	-					
Lamp Setting	Bright				Н		D	-	-	-	0	OK or ERR	ERR		
	Eco + Quiet				Н			-	-	-	1	OK or ERR	ERR		
Auto Sync	On					D	J	-	-	-	1	OK or ERR	ERR		
	Off					D		-	-	-	0	OK or ERR	ERR		
Auto Power Off	On					0		-	-	-	1	OK or ERR	ERR		
	Off					0		_	_	_	0	OK or ERR	ERR		
Auto Restart	On				R			_	_	_	1	OK or ERR	ERR		
	Off				R			_	_	_	0	OK or ERR	ERR		
STANDBY Mode	Standard					U	Т	_	_	_	1	OK or ERR	ERR		
	Eco			М	0	U	Т	_	_	_	0	OK or ERR	ERR		
Auto Keystone	On	On			Т	к	s	_	_	_	1	OK or ERR	ERR		
	Off			А	Т	к	S		_	_	0	OK or ERR	ERR		
PRJ Mode	Reverse	On			М			_	-	_	1	OK or ERR	ERR		
		Off			М						0	OK or ERR	ERR		
	Invert	On			М		N	_	_	_	1	OK or ERR	ERR		
		Off		•	М			-	-	-	0	OK or ERR	ERR		
Language	English	1011			E		A	_	_	_	1	OK or ERR	ERR		
Languago	Deutsch			M			A	-	-	-	2	OK or ERR	ERR		
	Español			M		L	A	-	-	-	3	OK or ERR	ERR		
	Nederlands				E	-	A	-	-	-	4	OK or ERR	ERR		
					E		A	-	-	-	4 5				
	Français							-	-	-		OK or ERR	ERR		
	Italiano					L	A	-	-	-	6	OK or ERR	ERR		
	Svenska				Е		A	-	-	-	7	OK or ERR	ERR		
	日本語						А	-	-	-	8	OK or ERR	ERR		
	Português				Е		А	-	-	-	9	OK or ERR	ERR		
	汉语					_	А	_	_		0	OK or ERR	ERR		
	한국어				Е	L	А	_	_		1	OK or ERR	ERR		
	Русский					L	А	_	_		2	OK or ERR	ERR		
	عربي					L	А	_	_	1	3	OK or ERR	ERR		
	polski			М	Е	Г	А	_]		1	4	OK or ERR	ERR		
	Türkçe			М	Е	L	А	_	_	1	5	OK or ERR	ERR		
Setup Guide	On			S	E	G	U				1	OK or ERR	ERR		
	Off					G	U	_	_	_	0	OK or ERR	ERR		
System Sound	On					N		_	_		1	OK or ERR	ERR		
· · · · · · -	Off				S				-	-	0	OK or ERR	ERR		
nternal Speaker	On					P			-		1	OK or ERR	ERR		
nona opounoi	Off				S		K		-	-	0	OK or ERR	ERR		
RGB Frequency	Horizontal				5 F		n Q	-	-	-	1	kHz(***.* or ERR)	ERR		
CD I TOQUOTICY					F			-	-	-	2	Hz(***.* or ERR)	ERR		
Chook		Vertical						-	—	-					
			1	1.1	1.1						~ 1				
Check Fan Mode	Normal			H H		M	D	-	-	-	0	OK or ERR OK or ERR	ERR ERR		

PJLink<sup>™</sup> Compliant:

This product conforms with the PJLink standard Class 1 and all Class 1 commands are implemented. This product confirms with the PJLink standard specification version 1.00.

## Setting up the Projector Network Environment

This section describes the basic procedure for using the projector via the network.

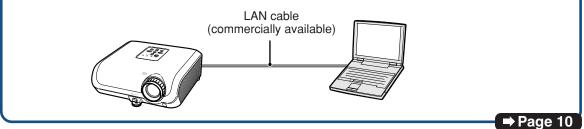
If the network is already constructed, the projector's network settings may need to be changed. Please consult your network administrator for assistance with these settings.

You can make network settings both on the projector and on the computer. The following procedure is for making settings on the computer.

## **Network settings on the computer**

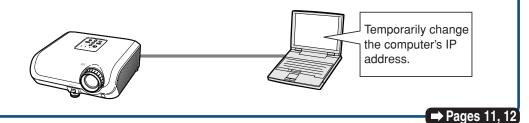
## Connecting the projector to a computer

Connect a LAN cable (Category 5, cross-over type) between the computer and projector.



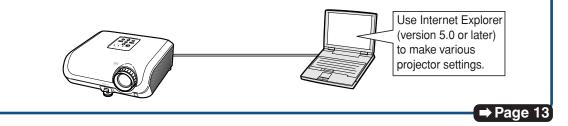
## 2. Setting an IP address for the computer

Adjust the IP settings of the computer to enable one-to-one communications with the projector.



## $\mathbf{3}_{II}$ Setting up a network connection for the projector

Adjust the projector network settings to conform to your network.

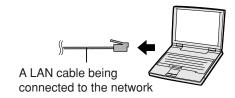


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- All other company or product names are trademarks or registered trademarks of their respective companies.

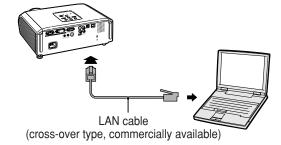
### **1. Connecting the Pro**jector to a Computer

Establishing a one-to-one connection from the projector to a computer. Using a LAN cable (Category 5, cross-over type) you can configure the projector via the computer.

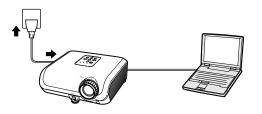
1 Disconnect the computer's LAN cable from the existing network.



2 Connect a LAN cable (a UTP cable, Category 5, cross-over type) to the projector's LAN terminal and connect the other end of the cable to the computer's LAN terminal.



**3** Plug the power cord into the AC socket of the projector.





#### 📕 Info

4

Confirm that the LINK LED on the rear of the projector illuminates. If the LINK LED does not illuminate, check the following :

• The LAN cable is properly connected.

Turn on the computer.

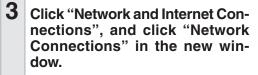
• The power switches of both the projector and the computer are on.

This completes the connection. Now proceed to "2. Setting an IP Address for the Computer".

## 2. Setting an IP Address for the Computer

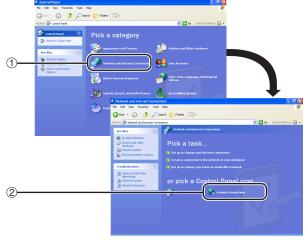
The following describes how to make settings in Windows<sup>®</sup> XP (Professional or Home Edition).

- 1 Log on the network using the administrator's account for the computer.
- **2** Click "Start", and click "Control Panel".



 This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click "Network Connections".





4 Right-click "Local Area Connection" and select "Properties" from the menu.



#### Setting up the Projector Network Environment

5	Click "Internet Protocol (TCP/IP)",	🕹 Local Area Connection Properties 🛛 🔹 💽
	nd click the "Properties" button.	General Authentication Advanced
		Connect using:
		B 3Com 3C920 Integrated Fast Ethernet Controller (3C905C-
		Configure
		This connection uses the following items:
		Sclient for Microsoft Networks
		🗹 🚚 File and Printer Sharing for Microsoft Networks
		( ☑ ३〒Internet Protocol (TCP/IP)
		Install Uninstall Properties
		Description
		Transmission Control Protocol/Internet Protocol. The default
		wide area network protocol that provides communication across diverse interconnected networks.
		Show icon in notification area when connected
		OK Cancel
	firm or change an IP address	Internet Protocol (TCP/IP) Properties
for the	e setup computer.	Internet Protocol (TCP/IP) Properties General
for the solution for the solution of the solut	setup computer. rm and note the current IP ad-	General You can get IP settings assigned automatically if your network sup
for the s ① Confin dress	setup computer. rm and note the current IP ad- , Subnet mask and Default	General You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra
for th ① Cor dre gate <u>Ma</u> l	e setup computer. firm and note the current IP ad- ss, Subnet mask and Default eway. ke sure to note the current IP	General You can get IP settings assigned automatically if your network sup
for the ① Conf dres gate <u>Make</u> addr	e setup computer. firm and note the current IP ad- s, Subnet mask and Default way. e sure to note the current IP ess, Subnet mask and Default	General You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra
for the ① Confi dress gatew <u>Make</u> addre gatew	setup computer. irm and note the current IP ad- s, Subnet mask and Default vay. sure to note the current IP ess. Subnet mask and Default vay as you will be required to re-	General You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra the appropriate IP settings.
for the s ① Confirm dress, gatewa <u>Make s</u> <u>addres</u> <u>gatewa</u> <u>set ther</u>	etup computer. m and note the current IP ad- Subnet mask and Default y. sure to note the current IP s. Subnet mask and Default y as you will be required to re- m later.	General You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra the appropriate IP settings. Obtain an IP address automatically
for the set ① Confirm dress, ② gateway <u>Make s</u> address gateway set them ② Set tem	etup computer. and note the current IP ad- Subnet mask and Default aure to note the current IP , Subnet mask and Default as you will be required to re- later. porarily as follows :	General You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra the appropriate IP settings. Obtain an IP address automatically Substain the following IP address:
for the setu ① Confirm and dress, Su gateway. <u>Make sure</u> address. So gateway aso set them lat ② Set tempor IP address	p computer. ad note the current IP ad- bnet mask and Default e to note the current IP subnet mask and Default you will be required to re- ter. arily as follows : • : 192.168.150.3	General         You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administrative appropriate IP settings.         O Dotain an IP address automatically         O Use the following IP address:         IP address:         Subnet mask:         255.255.255.0
for the s 1 Confir dress, gatewa <u>Make</u> <u>address</u> <u>gatewa</u> <u>set the</u> 2 Set ter IP add Subne	setup computer. m and note the current IP ad- Subnet mask and Default ay. sure to note the current IP ss. Subnet mask and Default ay as you will be required to re-	General         You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administrative appropriate IP settings.         Obtain an IP address automatically         Image: Strain Strai

1

2

**?**×

• When "DHCP Client" is set to "OFF" on the projector: IP address : 192.168.150.2 Subnet mask : 255.255.255.0 Default gateway : 0.0.0.0

7 After setting, click the "OK" button, and then restart the computer.

After confirming or setting, proceed to "3. Setting up Network Connection for the Projector".

\_

## 3. Setting up a Network Connection for the Projector

Settings for such items as the projector's IP address and subnet mask are compatible with the existing network. Set each item on the projector as follows. (See page 50 of the projector's operation manual for setting.) DHCP Client : Off IP Address : 192.168.150.002 Subnet Mask : 255.255.255.000

1 Start Internet Explorer (version 5.0 or later) on the computer, and enter "http://192.168.150.2/" in "Address", and then press the "Enter" key.

# 2 If a user name and a password have not yet been set, just click the "OK" button.

- If a user name and a password have been set, input the user name and the password, and click the "OK" button.
- If the user name or password is entered incorrectly three times, an error message will be displayed.
- **3** When the screen as shown on the right appears, click "TCP/IP".



Connect to 192	.168.150.2
XX-XXXX	
User name:	2
Password:	
	Remember my password
	OK Cancel

SHARP Projector : XX-XXXX - Micro	soft Internet Explorer				
Elle Edit View Figworites Iools Help	🔎 Search 🤺 Favorites 🛛	📲 🚱 🔗 - 🌺 🔜			
Agdress 🎒 http://192.168.150.2/		So Links **			
SHARP Projector					
XX-XXXX	Sharp XX-XXXX (192.168.150.2)				
- Menu -	MAC Address	2020222222222			
Status	Power	ON			
	Condition	Normal			
Control	Lamp Timer	1hour(s) 15minute(s)			
Settings & Adjustments - <u>Picture</u>	Lamp Life	99%			
- Screen Adjust	Input	COMPUTER			
<ul> <li>Projector Adjust</li> <li>All Reset</li> </ul>	Signal Info	1024g768 (H 48.3kHz / V 60.0 Hz)			
Nutrian	Serial Number	1234567			
- TCP/IP - General	Refresh				

### Setting up the Projector Network Environment

#### 4 The TCP/IP setting screen appears, ready for network settings for the projector.

Items	Setting example / Remarks
New	You can set the password to
Password	protect the TCP/IP setting.
DHCP	Select "ON" or "OFF" to determine
Client	whether to use DHCP Client.
IP Address	You can set this item when "DHCP
	Client" is set to "OFF".
	Factory default setting: 192.168.150.2
	Enter an IP address appropriate
	for the network.
Subnet	You can set this item when "DHCP
Mask	Client" is set to "OFF".
	Factory default setting: 255.255.255.0
	Set the subnet mask to the same
	as that of the computer and
	equipment on the network.
Default	You can set this item when "DHCP
Gateway	Client" is set to "OFF".
	Factory default setting: 0.0.0.0
	* When not in use, set to "0.0.0.0".
DNS	Factory default setting: 0.0.0.0
Server	* When not in use, set to "0.0.0.0".

## Note Note

- · Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.2" is not used in the network having an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- · For details about each setting, consult your network administrator.



6

Click the "Apply" button.

The set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

- · Close the browser.
- After setting items, wait for 10 seconds and then re-access.
- This completes the network settings.
- · Change the IP address of the setting computer back to its original address, which you have noted down in Step 6-① on page 12, and then connect the computer and the projector to the network.

#### Network - TCP/IP

New Password	(4 digits)
Reconfirm	

This password is for protection of the TCP/IP setting. Apply

DHCP Client	© OFF CON		
IP Address	192 168 150 2		
Subnet Mask	255 .255 .0		
Default Gateway	0.0.0" means "Using no default gateway."		
DNS Server	0 0 0 0 * "0.0.0.0" means "Using no DNS server."		

#### Network - TCP/IP

New Password	(4 digits)
Reconfirm	

This password is for protection of the TCP/IP setting. Apply

DHCP Client	© OFF C ON	
IP Address	192 168 150 2	
Subnet Mask	255 .255 .0	
Default Gateway	0 0 0 * "0.0.0" means "Using no default gateway."	

ver 0.0.0" means "Using no DNS server."		DNS Server
---	--	------------

Apply

Refresh

#### Network - TCP/IP

The TCP/IP settings will be changed as below

DHCP Client : OFF IP Address : 192.168.150.2 Subnet Mask : 255.255.255.0 Default Gateway : 0.0.0.0 : 0.0.0.0 DNS Server

Do you want to change the TCP/IP settings?

#### Confirm Cancel

After you click "Confirm", if you want to continue to operate this projector via the network, please wait for 10 seconds and then re-access to "192.168.150.2"

(GB)-14

## **Controlling the Projector via LAN**

After connecting the projector to your network, enter the projector IP address in "Address" on Internet Explorer (version 5.0 or later) using a computer on the network to start a setup screen that will enable control of the projector via the network.

#### **Controlling the Projector Using Internet Explorer** (Version 5.0 or later)

Complete connections to external equipment before starting the operation. (See pages 21-25 of the projector's operation manual.) Complete the AC cord connection. (See page 25 of the projector's operation manual.)

## 🗞 Note

- When connecting the projector to the LAN, use a LAN cable (Category 5). When connecting the projector to a hub, use a straight-through cable.
  - Start Internet Explorer (version 5.0 or later) on the computer.
- 2 Enter "http://" followed by the projector IP address set by the procedure on page 14 followed by "/" in "Address", and then press the "Enter" key.
  - When "DHCP Client" is set to "OFF" on the projector, IP address is 192.168.150.2. If you did not change the IP address in "3. Setting up a Network Connection for the Projector" (pages 13-14), enter "http://192.168.150.2/".
- **3** A screen for controlling the projector appears, ready for performing various status conditions, control, and settings.



SHARP Projector : XX-XXXX - Mi File Edt View Favorites Tools H			
🌀 Back + 🔘 - 💌 📓 🏠	Search 🥎 Favorites	😵 Media 😧 🔗 - 🖕 🖂	
Agdress 👸 http://192.168.150.2/		💌 🋃 Go Unks 🎽	
SHARP Projector	Status		
XX-XXXX	Sharp XX-XXXX (192.168.150.2)		
- Menu -	MAC Address	*****	
Status	Power	ON	
	Condition	Normal	
Control	Lamp Timer	lhour(s) 15minute(s)	
Settings & Adjustments – Picture 99%		99%	
- Screen Adjust	Input	COMPUTER	
<ul> <li>Projector Adjust</li> <li>All Reset</li> </ul>	Signal Info	1024x768 (H 48.3kHz / V 60.0 Hz)	
Network	Serial Number	1234567	
- <u>TCP/IP</u> - <u>Security</u>	Refresh		

### **Confirming the Projector Status** (Status)

#### Status

Sharp XX-XXXX (192.168.150.2)		
MAC Address	****	
Power	ON	
Condition	Normal	
Lamp Timer	1hour(s) 15minute(s)	
Lamp Life	99%	
Input	COMPUTER	
Signal Info	1024x768 (H 48.3kHz /V 60.0 Hz)	
Serial Number	1234567	

Refresh

On this screen, you can confirm the projector status. You can confirm the following items :

- MAC Address
- Power
- Condition
- Lamp Timer
- Lamp Life
- Input
- Signal Info
- Serial Number

#### 🗞 Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- For details about each item, refer to the projector's operation manual.

## **Controlling the Projector** (Control)

#### Control

Power	⊙ STANDBY ⊙ ON		
Input Select	COMPUTER 💌		
Volume	1 💌		
AV Mute	⊙ OFF ○ ON		

Refresh

On this screen, you can perform projector control. You can control the following items :

- Power
- Input Select
- Volume
- AV Mute

## Note Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control "Power ON".
- For details about each item, refer to the projector's operation manual.

#### Setting and Adjusting the Projector (Settings & Adjustments)

#### Example: "Picture" screen display for COMPUTER Settings & Adjustments -Picture COMPUTER

Picture Mode	Presentation V
CLR Temp	0 💌
BrilliantColor <sup>TM</sup>	2 💌
Lamp Setting	Bright
Reset	

¥

Signal Type

Refresh

On these screens, you can make projector settings or adjustments. You can set or adjust the following items :

- Picture Mode
- CLR Temp
- BrilliantColor™
- Progressive (Video)

Auto

- Lamp Setting
- Resolution Setting
- Signal Type (Computer, DVI)
- Dynamic Range (DVI)
- Video System (Video)
- Resize
- Auto Keystone
- OSD Display
- Background
- Setup Guide
- Projection Mode
- OSD Language
- Auto Sync
- Auto Power Off
- Auto Restart
- System Sound
- Internal Speaker
- Audio Input
- RS-232C Speed
- Fan Mode
- All Reset

## 🗞 Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- For details about each item, refer to the projector's operation manual.

### Setting the Security (Network – Security)

#### Network - Security

User Name	(MAX 8 characters)
Password	(MAX 8 characters)
This user name / nassmord is for	accessing via Web browser and Telnet

I mis user name / password is for accessing via web proviser and remet. \*You will need to re-login with the new user name / new password after you change the user name / password.

Accept IP Address	⊙ All IP Addresses ○ From only specific IP addresses
	Address 1 0 . 0 . 0 . 0
	Address 2 0 . 0 . 0 . 0
	Address 3 0 0 0 0

Apply

Refresh

On this screen, you can make settings relating to security.

Items	Description		
User Name	Setting of user name for		
	security protection.		
Password	Setting of password for		
	security protection.		
Accept IP	It is possible to set up to three		
Address	IP addresses allowing connec-		
	tion to the projector.		
All IP	No limits are set to IP addresses		
Addresses	connecting to the projector.		
From only	For security improvement, only an		
specific IP	IP address set by "Address 1-3"		
addresses	can be connected to the projector.		

Note Note

- User Name and Password can be up to 8 characters.
- You can input the characters below :

a-z, A-Z, 0-9, -, \_

### Making General Settings for the Network (Network -General)

#### Network - General

Projector Name	XX-XXXX (MAX 12 characters)					
Auto Logout Time	5 minute(s) (0-65535) * If the set value is made 0, the Auto Logout function is disabled.					
Data Port	10002 (1025-65535)					
Search Port	5006 (1025-65535)					

Apply

Refresh

## On this screen, you can make general settings relating to the network.

Items	Description
Projector	Setting the projector name.
Name	
Auto	Setting the time interval in
Logout	which the projector will be
Time	automatically disconnected
	from the network in units of a
	minute (from 1 to 65535
	minutes). If the set value is
	made 0, the Auto Logout
	function is disabled.
Data Port	Setting the TCP port number
	used when exchanging data
	with the projector (from 1025 to
	65535).
Search	Setting the port number used
Port	when searching for the
	projector (from 1025 to 65535).

After clicking the "Apply" button, the set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

## Note

- After setting items, wait for 10 seconds and then re-access.
- Projector Name can be up to 12 characters.
- You can input the characters below : A-Z, 0-9, -, \_, (,), space (When "a-z" are input, they are converted to "A-Z" automatically.)

#### Setting for Sending E-mail when an Error Occurs (Mail – Originator Settings)

#### Mail - Originator Settings

SMTP Server	
	(MAX 64 characters)
Originator E-	
mail Address	(MAX 64 characters)
Originator	
Name	(MAX 64 characters)

Apply

Refresh

On this screen, you can make settings for sending e-mail to report when the projector has generated an error.

Items	Setting example / Remarks
SMTP	Setting an SMTP server
Server	address for e-mail transmis- sion.
	e.g.1:192.168.150.253
	e.g.2 : smtp123.sharp.co.jp
	* When using a domain name,
	make settings for the DNS
	server.
Originator	Setting the projector's e-mail
E-mail	address. The e-mail address set
Address	here becomes Originator E-mail
	Address.
Originator	Setting the sender's name.
Name	The name set here appears in
	the "Originator Name" column
	of the body of the message.

#### 🗞 Note

- SMTP Server, Originator E-mail Address and Originator Name can be up to 64 characters.
- You can input the characters below: SMTP Server and Originator E-mail Address : a-z, A-Z, 0-9, !, #, \$, %, &, \*, +, -, /, =, ?, ^, {, |, }, ~, \_, ', ., @,`

(You can input "@" only one time for "Originator E-mail Address".)

- Originator Name : a-z, A-Z, 0-9, -, \_, (,), space
- If the settings of "3. Setting up a Network Connection for the Projector" on pages 13 and 14 are incorrectly set, e-mail will not be send.

## Setting Error Items and Destination Addresses to which E-mail is to be Sent when an Error Occurs

#### (Mail – Recipient Settings)

#### Mail - Recipient Settings

Recipient Addresses	E-mail Address						
1 Iuu casea	(MAX 64 character	rs)	Lamp	Temp	Fan	$\operatorname{Cover}$	
	1						Test
	2						Test
	3						Test
	4						Test
	5						Test

Apply

Refresh

On this screen, you can input e-mail destinations to which error notification (error items) e-mails are sent.

Items	Description				
E-mail	Set addresses to which error				
Address	notification e-mail is sent. You				
	can set up to five addresses.				
Error Mail	Error e-mail is sent on the error				
(Lamp, Temp,	items checked in their check				
Fan,Cover)	boxes.				
Test	Send test e-mail. This allows				
	you to confirm that the settings				
	for e-mail transmission are				
	properly set.				

## 🗞 Note

- E-mail Address can be up to 64 characters.
- You can input the characters below : a-z, A-Z, 0-9, !, #, \$, %, &, \*, +, -, /, =, ?, ^, {, |, }, ~, \_, ', ., @,`

(You can input "@" only one time.)

• For details about error items, refer to the projector's operation manual.

### Setting Error Items and the URL that are to be Displayed when an Error Occurs (Service & Support – Access URL)

Service & Support - Access URL Registration

Access URL			Condition					
URL		(MAX 64 characters)	Always	Lamp	Temp	Fan	Cover	
	1							Test
	2							Test
	3							Test
	4							Test
	5							Test

Apply

Refresh

On this screen, you can make settings of the URL and error items that are to be displayed when the projector has generated an error.

Items	Description
Access	Set the URL that is to be
URL	displayed when an error
	occurs. You can set up to five
	addresses.
Condition	The URL is displayed when an
(Always, Lamp,	error checked in their check
Temp, Fan,Cover)	boxes occurs.
Test	The set URL site is test-
	displayed. This allows you to
	confirm that the URL site is
	properly displayed.

## Example of the display when an error occurs Status

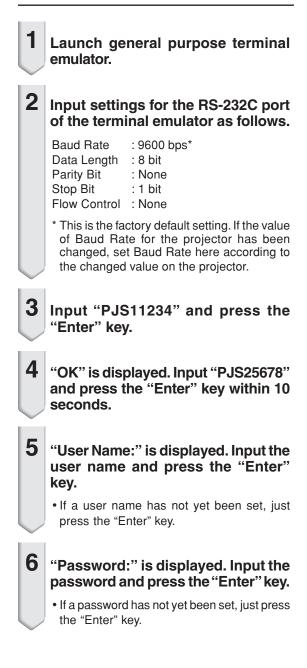
Sharp XX-XXXX	(192.168.150.2)
MAC Address	****
Power	STANDBY
	The cooling fan is not operating.
Condition	Access URL
Condition	1 http://www.sharp-world.com/projector/
Lamp Timer	1hour(s) 15minute(s)
Lamp Life	99%
Input	
Signal Info	
Serial Number	1234567

Refresh

## Setting up the Projector Using RS-232C or Telnet

Connect the projector to a computer using RS-232C or Telnet, and open the SETUP MENU on the computer to carry out various settings for the projector.

#### When Connecting Using RS-232C



## 7 Input "setup" and press the "Enter" key.

• SETUP MENU will be displayed.

#### SETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged

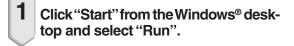
setup>

## Note 📎

- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times, SETUP MENU will be quit.

### Setting up the Projector Using RS-232C or Telnet

## When Connecting Using Telnet



- 2 Enter "telnet 192.168.150.2" in the text box that opens up. (If the IP address of the projector is 192.168.150.2.)
- 3

5

Click the "OK" button.

4 "User Name:" is displayed. Input the user name and press the "Enter" key.

 If a user name has not yet been set, just press the "Enter" key.

"Password:" is displayed. Input the password and press the "Enter" key.

- If a password has not yet been set, just press the "Enter" key.
- 6 Input "setup" and press the "Enter" key.
  - SETUP MENU will be displayed.

#### ▼SETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged
setup>		

Note 📎

- If the IP address has been changed, be sure to enter the new IP address in step 2.
- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times in steps 4 or 5, SETUP MENU will be quit.

### SETUP MENU (Main Menu)

#### ▼SETUP MENU

	SETUP MENU	
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged

#### setup>

#### [1] IP Address

IP address settings. (Page 25)

[2]Subnet Mask

Subnet mask settings. (Page 25)

[3] Default Gateway

Default gateway settings. (Page 25)

[4]User Name (Factory default setting : Not Required)

Setting of user name for security protection. (Page 25)

- [5] Password (Factory default setting : Not Required) Setting of password for security protection. (Page 26)
- [6]RS-232C Baud Rate (Factory default setting : 9600 bps)

Baud rate settings for the RS-232C terminals. (Page 26)

#### [7] Projector Name

It is possible to assign a projector name. (Page 26) [8]DHCP Client

DHCP Client settings. (Page 26)

[A]Advanced Setup

Enters ADVANCED SETUP MENU. (Page 27)

#### [D]Disconnect All

Disconnect all connections. (Page 27)

#### [V] View All Setting

Displays all setting values. (Page 23)

Can also be used with ADVANCED SETUP MENU.

[S]Save & Quit

Save set values and quit menu. (Page 24)

[Q]Quit Unchanged

Quit menu without saving setting values. (Page 24)

## Note

• When "DHCP Client" is set to "OFF" on the projector: IP address : 192.168.150.2 Subnet mask : 255.255.255.0 Default gateway : 0.0.0.0

## ADVANCED SETUP MENU

#### ▼ADVANCED SETUP MENU

************** AD\ [1]Auto Logout Time [5]Network Ping Test	/ANCED SETUP MENU [2]Data Port	******		
[6]Accept IP Addr(1) [9]Accept All IP Addr	[7]Accept IP Addr(2) [0]Search Port	[8]Accept IP Addr(3)		
[!]Restore Default Setting [Q]Return to Main Menu				
advanced>				

#### [1] Auto Logout Time (Factory default setting : 5 minutes)

Setting of time until automatic disconnection of network connection. (Page 27)

#### [2]Data Port (Factory default setting : 10002)

Setting the TCP port number used when exchanging data. (Page 27)

#### [5]Network Ping Test

It is possible to confirm that a network connection between the projector and a computer etc. is working normally. (Page 28)

#### [6]Accept IP Addr(1)

- [7]Accept IP Addr(2)
- [8]Accept IP Addr(3)
- [9]Accept All IP Addr (Factory default setting : Accept All)

For improved security, it is possible to set up to three IP addresses allowing connection to the projector. Set IP addresses can be cancelled using [9] Accept All IP Addr. (Page **28**)

#### [0] Search Port (Factory default setting : 5006)

Setting the port number used when searching for the projector. (Page 29)

#### [!] Restore Default Setting Restores all setting values that can be set using the menu to the default state. (Page 29)

#### [Q]Return to Main Menu

Return to the main SETUP MENU. (Page 29)

Enter number or symbol of item to be selected on the SETUP MENU. When setting, input the details to be set. Setting is carried out one item at a time, and saved at the end.

## View Setting Detail List ([V]View All Setting)

#### ▼SETUP MENU

		-SETUP ME	ENU		]
[1]IP Address		[2]Subnet N		[3]Default Gateway	
[4]User Name		[5]Password			
[6]RS-232C Baud F		[7]Projector	' Name	••	
[A]Advanced Setup				[D]Disconnect All	
[V]View All Setting		[S]Save & C	Quit	[Q]Quit Unchanged	
(setup>v)					
Model Name		(-XXXX			$\Box^{\cup}$
		(-XXXX			
Projector Name			~~~~~~		
MAC Address		(:XX:XX:XX:	XX:XX		
DHCP Client		sable			
IP Address	: 19	2.168.150.2			
Subnet Mask	: 25	5.255.255.0			
Default Gateway	: No	ot Used			L.
RS-232 Baud Rate	: 96	00 bps			Ē.
Password	: No	ot Required			
*********(Advanced	l Sta	tus)**********	r		
Data Port	: 10	002			
Accept IP Address	: Ac	cept All			
Auto Logout Time	:51	minutes			
Search Port	: 50	06			

① Enter "v" and press the "Enter" key. Display all setting values(\*).

#### Set Items

Example: When setting IP Address (change from 192.168.150.2 to 192.168.150.3)

#### ▼SETUP MENU

		_
	SETUP MENU	.
[1]IP Address	[2]Subnet Mask [3]Default Gateway	/
[4]User Name	[5]Password	
[6]RS-232C Baud F	Rate [7]Projector Name [8]DHCP Client	
[A]Advanced Setup	[D]Disconnect All	
[V]View All Setting	[S]Save & Quit [Q]Quit Unchange	ł
(setup>1)		10
IP Address : 1	92.168.150.2	<u> </u>
Please Enter : 1	92.168.150.3	+@
(change) -> 1	92.168.150.3	-*
	SETUP MENU	.
[1]IP Address	[2]Subnet Mask [3]Default Gateway	/
[4]User Name	[5]Password	
[6]RS-232C Baud F	Rate [7]Projector Name [8]DHCP Client	
[A]Advanced Setup	[D]Disconnect All	
[V]View All Setting	[S]Save & Quit [Q]Quit Unchange	k
(setup>v)		-(3
setup>v Model Name	: XX-XXXX	<u> </u> @
		<u> </u> @
Model Name		
Model Name Projector Name	: XX-XXXX	
Model Name Projector Name MAC Address	: XX-XXXX : XX:XX:XX:XX:XX:XX	®
Model Name Projector Name MAC Address DHCP Client IP Address	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable	
Model Name Projector Name MAC Address DHCP Client IP Address	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.0	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.0 : Not Used	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rat	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.05 : Not Used e : 9600 bps : Not Required	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rat Password	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.05 : Not Used e : 9600 bps : Not Required	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rat Password	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required Status)********* : 10002	
Model Name Projector Name MAC Address DHCP Client IP Address Subnet Mask Default Gateway RS-232C Baud Rat Password **********(Advanced Data Port	: XX-XXXX : XX:XX:XX:XX:XX:XX : Disable : 192.168.150.3 : 255.255.255.0 : Not Used e : 9600 bps : Not Required ! Status)******** : 10002 : Accept All	

 Enter "1" (number of item to be set), and press the "Enter" key.

Display current IP address (\*1).

② Enter IP address to be set and press the "Enter" key.

Display IP address after change (\*2).

③ Enter "v" and press the "Enter" key to verify setting detail list.

IP address is being changed (\*3).

## 🗞 Note

- Verification of setting detail list can be omitted.
- Setting details are not effective until they have been saved. (Page 24)
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed.

## Save Settings and Quit ([S]Save & Quit)

Save set values and quit menu.

#### ▼SETUP MENU

[1]IP Address [4]User Name [6]RS-232C Baud Rate [A]Advanced Setup [V]View All Setting	-SETUP MENU [2]Subnet Mask [5]Password [7]Projector Name [S]Save & Quit	[3]Default Gateway [8]DHCP Client [D]Disconnect All [Q]Quit Unchanged	
Setup>s All Connection will be dia Continue(y/n)? y Apply New settingDon			-1 -2

① Enter "s" and press the "Enter" key.

② Enter "y" and press the "Enter" key.

### Quit without Saving Settings ([Q]Quit Unchanged)

Quit menu without saving setting values.

#### ▼SETUP MENU

	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
Costum a			La
(setup>q) (Quit Without Saving(y/n	12 10		<u> </u>
Setting Unchanged.			
Setting Orienaliged.			

- 1 Enter "q" and press the "Enter" key.
- ② Enter "y" and press the "Enter" key.

The setting procedure for each item will be explained. For the basic procedure, please refer to "Set Items" on page 23.

#### IP Address Setting ([1]IP Address)

Setting of IP address.

(setup>1)		
IP Address	100 100 100 0	
	:192.168.150.2	
Please Enter	:192.168.150.3 <b>)</b>	(2)
(change) ->	192.168.150.3	*

- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display IP address after change (\*).

## Subnet Mask Setting ([2]Subnet Mask)

Setting subnet mask.

(setup>2)		<b>_</b> 1
Subnet Mask	:255.255.255.0	U
Please Enter	:255.0.0.0	
	255.0.0.0	
(change) —>	255.0.0.0	- ×

- ① Enter "2" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display subnet mask after change (\*).

## **Default Gateway Setting** ([3]Default Gateway)

Setting default gateway.

(setup>3)	
note: "0.0.0.0" means "Using no default gatewa	v"
Gateway Address :0.0.0.0	.y.
(Please Enter :192.168.150.1)	
(change) —> 192.168.150.1	
(change) —> 192.100.150.1	*

- ① Enter "3" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display gateway address after change (\*).

#### Note 📎

 If the values for IP Address, Subnet Mask or Gateway of the projector have been changed via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

### User Name Setting ([4]User Name)

Carrying out security protection using user name.

(setup>4)			1
User Name	:		U
Please Enter	:XX-XXXX)		2
(change) ->	XX-XXXX —	I	-*

- ① Enter "4" and press the "Enter" key.
- ② Enter user name and press the "Enter" key. Display set user name (\*).

## 🗞 Note

- User name can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -, \_
- In the default state, user name is not set.

#### **Password Setting** ([5]Password)

Carrying out security protection using password.

(setup>5)		
Password		
		6
Please Enter	<u>sharppj</u>	
(change) —>	sharppj	*

Enter "5" and press the "Enter" key.
 Enter password and press the "Enter" key.

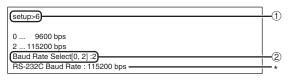
Display set password (\*).

#### 🕙 Note

- Password can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -,
- In the default state, the password is not set.

### RS-232C Baud Rate Setting ([6]RS-232C Baud Rate)

Setting of baud rate for RS-232C terminals.



- ① Enter "6" and press the "Enter" key.
- Select and enter the number 0 or 2 and press the "Enter" key. Display set baud rate (\*).

## 🗞 Note

• Set the projector's baud rate to the same rate as that used by the computer.

## **Projector Name Setting** ([7]Projector Name)

It is possible to assign a projector name.

(setup>7)		
Projector Name	· XX-XXXX	
	170170001	
Please Enter	<u>: MY XX-XXXX</u>	<u> </u>
(change) —>	MY XX-XXXX	*

- ① Enter "7" and press the "Enter" key.
- ② Enter projector name. Display set projector name (\*).

## Note 📎

- Projector name can be up to 12 characters.
- You can input the characters below :
- A-Z, 0-9, -, \_, (,), space (When "a-z" are input, they are converted to "A-Z" automatically.)
- It is the same as the name which can be confirmed or set, using RS-232C commands "PJN0", "PJN1", "PJN2" and "PJN3".

## DHCP Client Setting ([8]DHCP Client)

Setting DHCP Client to "Enable" or "Disable".

Example: When setting DHCP Client to "Enable"

setup>8	1
note: It sets DHCP Client.	
0 Disable	
1 Enable	
DHCP Select[0-1] : 1	<u>+-</u> 2
DHCP Client : Enable	
Success get data from DHCP server.	
[MAC Address ] : [XX:XX:XX:XX:XX:XX]	
[IP Address ]: [192.168.150.2]	L .
[Subnet Mask ] : [255.255.255.0]	<u> </u>
[Default Gateway ] : [0.0.0.0]	
[DHCP IP Address] : [192.168.150.1]	

- ① Enter "8" and press the "Enter" key.
- ② Enter "1" and press the "Enter" key. Display the obtained values (\*).

#### Disconnecting All Connections ([D]Disconnect All)

It is possible to disconnect all the TCP/IP connections currently recognized by the projector. Even if the COM Redirect port is fixed in the Busy status due to a problem, it is possible to force the Ready status back by carrying out this disconnection.

(setup>d)	
Disconnect All Connections(y/n)?y	
Now Disconnecting	
rion Dieconnooningin	

Enter "d" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

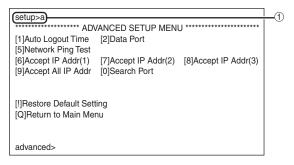


• If Disconnect All is performed, the connection to the projector via network will be forcibly disconnected.

## Entering ADVANCED SETUP MENU

#### ([A]Advanced Setup)

Enters ADVANCED SETUP MENU.



① Enter "a" and press the "Enter" key.

### Setting Auto Logout Time (ADVANCED[1]Auto Logout Time)

If there is no input after a fixed time, the projector automatically disconnects network connection using the Auto Logout function. It is possible to set the time until the projector is automatically disconnected in units of a minute (from 1 to 65535 minutes).

(advanced>1)	
Valid range : 0 to 65535 (minute)	
note: if you enter "0", auto logout function will be disable.	
Auto Logout Time : 5	
Please Enter :15	-(2)
(change)> 15	*

- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (\*).

## Note 📎

- If the set value is made 0, the Auto Logout function is disabled.
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed and the screen returns to the ADVANCED SETUP MENU.

## Data Port Setting (ADVANCED[2]Data Port)

Setting of TCP port number. It is possible to set in the range of 1025 to 65535.

(advanced>2)		
Valid range	:1025 to 65535	
Data Port	:10002	
(Please Enter	:10005	$\Box$
(change)	—> 10005 —	*

- ① Enter "2" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (\*).

#### \delta Note

 Set according to need. Normally, use with the factory default setting.

### **Carrying out Network Ping** Test

#### (ADVANCED[5]Network Ping Test)

It is possible to confirm that a network connection between the projector and a computer etc. is working normally.

(advanced>5)	
Ping dest IP addr :192.168.150.1	
Please Enter :192.168.150.152	-2
(change) -> 192.168.150.152	<u>+</u> *1
32 bytes from 192.168.150.152: icmp_seq = 1, time = 0 ms	
32 bytes from 192.168.150.152: icmp_seq = 2, time = 0 ms	*0
32 bytes from 192.168.150.152: icmp_seq = 3, time = 0 ms	$\overline{}$
32 bytes from 192.168.150.152: icmp_seq = 4, time = 0 ms	

① Enter "5" and press the "Enter" key.

② Enter IP address of device to be tested and press the "Enter" key.

Display entered IP address (\*1). Display test result (\*2).

```
Note 🚫
```

- If the "Enter" key is pressed without entering an IP address, the Ping destination IP address used previously is entered.
- If there is a fault with the connection, "Error: No answer" is displayed after a 5 second retry. In this case, please confirm the settings for the projector and the computer, and contact your network administrator.

## Setting of Accept IP Address (ADVANCED[6]Accept IP Addr(1) - [8]Accept IP Addr(3))

It is possible to improve security of the projector by allowing connection from only a prescribed IP address. It is possible to set up to three IP addresses allowing connection to the projector.

(advanced>6)		
Accept IP Addr(1)	: 0.0.0.0	
Please Enter	: 192.168.150.152	(
		*
(change) —>	· 192.168.150.152	

- ① Enter "6", "7" or "8" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (\*).

## 🗞 Note

- To invalidate the Accept IP Address being currently set, enter "0.0.0.0".
- If there is one or more Accept IP Addr being set, no connections are allowed from IP addresses that are not yet set. They can be cancelled using [9]Accept All IP Addr.

### Accepting All IP Addresses (ADVANCED[9]Accept All IP Addr)

Removes IP addresses set with "Accept IP Addr".

(advanced>9)	
Accept All IP Addresses(y/n)? y	2

Enter "9" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

## Note 📎

- At the point in time where "y" was entered, the numerical values for Accept IP Addr(1)-(3) are reset to "0.0.0.0".
- If "n" is entered, setting is not altered.

#### Setting of Search Port (ADVANCED[0]Search Port)

Sets the port number used when searching for the projector from the network.

(advanced>0)	
Please Enter Port Number for Search from Computer.	
Valid range : 1025 to 65535	
Search Port : 5006	
Please Enter : 5004	1_2
(change) -> 5004	*

- ① Enter "0" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (\*).

Note 📎

• Set according to need. Normally, use with the factory default setting.

### **Return to Default Settings** (ADVANCED[!]Restore Default Setting)

Returns all menu setting values to the default state.

advanced>!)	<b>_</b> 1
(Restore All Setting to Default(y/n)? y)	
	-0
— User Setting Initialized —	

Enter "!" and press the "Enter" key.
 Enter "y" and press the "Enter" key.

## Note

If the values for IP Address, Subnet Mask or Gateway of the projector have been returned to the default settings via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

### Return to Main Menu (ADVANCED[Q]Return to Main Menu)

Returns to the main SETUP MENU.

advanced>q			
	SETUP MENU		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway	
[4]User Name	[5]Password		
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client	
[A]Advanced Setup		[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged	
setup>			

① Enter "q" and press the "Enter" key. Returns to the SETUP MENU.

## **Resetting the Lamp Timer of the Projector via LAN**

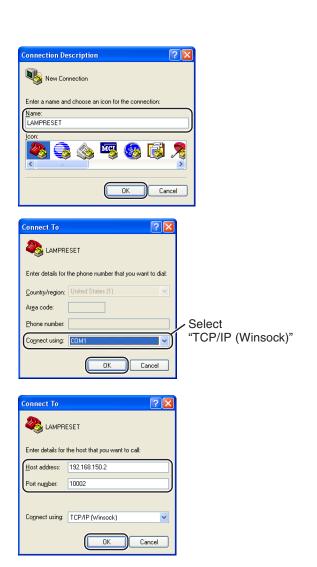
When the projector is connected to a network, you can use HyperTerminal or a similar communications program to send a command to reset the lamp timer. The example below uses Windows<sup>®</sup> XP as the operating system.

Click "Start" – "All Programs" – "Accessories" – "Communications" – "HyperTerminal".

1

- If you do not have HyperTerminal installed, see the operation manual of your computer.
- Depending on the settings of your computer, you may be required to enter your area code and other details. Enter the information as required.
- **2** Enter a name in the "Name" field, and click "OK".

- **3** If you are required to enter the area code, enter it in the "Area code" field. From the "Connect using" drop-down menu, select "TCP/IP (Winsock)", and click "OK".
- 4 Enter the IP address of the projector in the "Host address" field (see "TCP/IP" on the "Network" menu of the projector), and enter the data port of the projector in the "Port number" field ("10002" is the factory default setting), and click "OK".



#### **Resetting the Lamp Timer of the Projector via LAN**

LANDDESET H

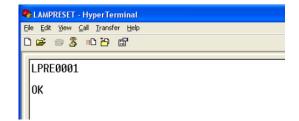
- **5** Click "Properties" on the "File" menu.
- 6 Click the "Settings" tab, and then click "ASCII Setup".

- 7 Select the check boxes next to "Send line ends with line feeds", "Echo typed characters locally", and "Append line feeds to incoming line ends", and click "OK".
  - The LAMPRESET Properties window appears, click "OK".
- 8 If a user name and/or password is set for the projector, enter the user name and password.
- **9** Send the lamp reset command "LPRE0001".
  - This command can only be sent when the projector is in standby mode.
  - When "OK" is received, this indicates that the lamp was successfully reset.



**10** Close HyperTerminal.

Eile Edit View Call Iransfer Help
다 🗃 🗇 🖏 🚥 🏠
L
LAMPRESET Properties
Connect T Settings
Function, arrow, and ctrl keys act as
Backspace key sends
Emulation:
Auto detect  Terminal Setup
Telnet terminal ID: ANSI
Backscroll buffer lines: 500
Play sound when connecting or disconnecting
Input Translation
OK Cancel
ASCII Setup
ASCII Sending
Send line ends with line feeds
Echo typed characters locally
Line delay: 0 milliseconds.
Character delay: 0 milliseconds.
ASCII Receiving
Append line feeds to incoming line ends
Erce incoming data to 7-bit ASCII
✓ Wrap lines that exceed terminal width
OK Cancel



## Troubleshooting

#### Communication cannot be established with the projector

#### When connecting the projector using serial-connection

- Check that the RS-232C terminal of the projector and a computer or the commercially available controller are connected correctly.
- Check that the RS-232C cable is a cross-over cable.
- Check that the RS-232C port setting for the projector corresponds to the setting for the computer or the commercially available controller.

#### When connecting the projector to a computer using network (LAN)connection

- Check that the cable's connector is firmly inserted in the LAN terminal of the projector.
- Check that the cable is firmly inserted into a LAN port for a computer or a network device such as a hub.
- Check that the LAN cable is a Category 5 cable.
- Check that the LAN cable is a cross-over cable when connecting the projector to a computer directly.
- Check that the LAN cable is a straight-through cable when connecting the projector with a network device such as a hub.
- Check that the power supply is turned on for the network device such as a hub between the projector and a computer.

#### Check the network settings for the computer and the projector

- Check the following network settings for the projector.
  - IP Address
    - Check that the IP address for the projector is not duplicated on the network.
  - Subnet Mask

When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:

- The subnet masks for the projector and the computer should be the same.
- The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

Gateway

When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:

- The subnets for the projector and the computer should be the same.
- The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

## 🗞 Note

- When "DHCP Client" is set to "OFF" on the projector IP address : 192.168.150.2 Subnet mask : 255.255.255.0
- Gateway address : 0.0.0.0 (Not Used)
- For network settings for the projector, refer to page 13.

- Take the following steps for checking the network settings for the computer.
  - 1. Open a command prompt (MS-DOS Prompt).
  - In the case of Windows<sup>®</sup> 98 or 98SE: click "START" → "Programs" → "MS-DOS Prompt" in order.
  - In the case of Windows<sup>®</sup> Me: click "START" → "Programs" → "Accessories" → "MS-DOS Prompt" in order.
  - In the case of Windows<sup>®</sup> 2000: click "START" → "Programs" → "Accessories" → "Command Prompt" in order.
  - In the case of Windows<sup>®</sup> XP: click "START" → "All Programs" → "Accessories" → "Command Prompt" in order.
  - After launching the command prompt (MS-DOS Prompt), enter the command "ipconfig", and press the "Enter" key.

Note 🚫

• Communication may not be established even after carrying out the network settings for the computer. In such cases, restart your computer.

C:\>ipconfig

🖾 Comn	nand Prompt	- 🗆 🗙
C:∖≻ipc	onfig	
Windows	IP Configuration	
Etherne	t adapter Local Area Connection:	
	Connection-specific DNS Suffix .: IP Address	
C:∖>_		
		-
•		• //
No	te	

Usage examples of ipconfig

C:\>ipconfig /? displays how to use "ipconfig.exe".

C:\>ipconfig	displays the set IP address, subnet mask and default gateway.
C:\>ipconfig /all	displays all the setting information related to TCP/IP.

3. To return to the Windows® screen, enter "exit" and press the "Enter" key.

#### Troubleshooting

- Check if the "TCP/IP" protocol is operating correctly using the "PING" command. Also, check if an IP address is set.
  - 1. Open a command prompt (MS-DOS Prompt).
    - In the case of Windows<sup>®</sup> 98 or 98SE: click "START" → "Programs" → "MS-DOS Prompt" in order.
    - In the case of Windows<sup>®</sup> Me: click "START" → "Programs" → "Accessories" → "MS-DOS Prompt" in order.
    - In the case of Windows<sup>®</sup> 2000: click "START" → "Programs" → "Accessories" → "Command Prompt" in order.
    - In the case of Windows<sup>®</sup> XP: click "START" → "All Programs" → "Accessories" → "Command Prompt" in order.
  - After launching the command prompt (MS-DOS Prompt) enter a command "PING". Entry example C:\>Ping XXX.XXX.XXX "XXX.XXX.XXX.XXX" should be entered with an IP address to be connected to, such as the projector.
  - When connecting normally, the display will be as follows. (The screen may be slightly different depending on the OS type).
     <Example> when the IP address connected to is "192.168.150.2"

```
Command Prompt
C: \>Ping 192.168.150.2
Pinging 192.168.150.2 with 32 bytes of data:
Reply from 192.168.150.2: bytes=32 time(1ms TIL=128
Reply from 192.168.150.2: bytes=32 time(1ms TIL=128
Reply from 192.168.150.2: bytes=32 time(1ms TIL=128
Ping statistics for 192.168.150.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0× loss),
Approxinate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C: \>_
```

- 4. When a command cannot be sent, "Request time out" will be displayed. Check the network setting again.
- If communication can still not be established properly, contact your network administrator. 5. To return to the Windows<sup>®</sup> screen, enter "exit" and then press the "Enter" key.

#### A connection cannot be made because you have forgotten your user name or your password.

- Initialize the settings. (See page 51 of the projector's operation manual.)
- After the initialization, carry out setting again.